

MARKED UP VERSION OF THE AMENDED CLAIMS
(Version with marking to show changes made)

1. (cancelled)

2. (previously presented) The medical treatment apparatus kit according to claim 33

wherein a separator (15) is furnished between a suction apparatus (A) and the suction hose (14).

3. (previously presented) The medical treatment apparatus kit according to claim 33

wherein the suction tube (11) made out of an opaque or transparent material is plugged onto the front end of the adaptation sleeve (10).

4. (previously presented) The medical treatment apparatus according to claim 27 wherein a treatment face (18) of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

5. (previously presented) The medical treatment apparatus kit according to claim 33

wherein the apparatus is set for frequency region of from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

6. (previously presented) The medical treatment apparatus according to claim 34 for the treatment of septic wounds and/or debridement comprising the ultrasound generator, the hand piece and the sonotrode attached at the hand piece, wherein the ultrasound generator operates according to the piezo ceramic principle.

7. (previously presented) The medical treatment apparatus according to claim 27 a wherein the flushing line (6) serves for flushing healing agents to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece; and the valve (7) disposed in the flushing line (6).near a front end of the flushing line (6).

8. (previously presented) The medical treatment apparatus according to claim 34 wherein a separator (15) is furnished between a suction apparatus (A) and the suction hose (14).

9. (previously presented) The medical treatment apparatus according to claim 34

wherein the suction tube (11) out of an opaque or a transparent material is plugged onto the front end of the adaptation sleeve (10).

10. (previously presented) The medical treatment apparatus kit according to claim 33

wherein a treatment surface (18) of the sonotrode (3) is disposed clearly outside the front edge of the suction tube (11), wherein the receiver part (12), the hose connection (13), and the suction hose (14) are generally disposed at a distance from the hand piece (1).

11. (previously presented) The medical treatment apparatus according to claim 27

wherein the apparatus is set for frequency region from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

12. (previously presented) The medical treatment apparatus according to claim 27 for the treatment of septic wounds and/or debridement comprising

the ultrasound generator, the hand piece and the sonotrode attached to the hand piece wherein the ultrasound generator operates according to the magnetostrictive principle.

13. (previously presented) The medical treatment apparatus according to claim 34, wherein the flushing line (6) runs along an outside of the handle (1) and changes over to an axial position relative to the handle (1) at the front end of the handle (1) toward the sonotrode (3) and wherein an end of the flushing line (6) toward the sonotrode connects to the channel.

14. (previously presented) The medical treatment apparatus according to claim 34 wherein a separator (15) is furnished between a suction apparatus (A) and the suction hose (14) and wherein the waste medical flushing liquid is guided outside of and separate from the hand piece (1).

15. (previously presented) The medical treatment apparatus according to claim 27,
wherein a suction tube out of opaque or transparent material is plugged onto the front end of the adaptation sleeve (10).

16. (previously presented) The medical treatment apparatus according to claim 34, wherein a treatment surface (18) of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

17. (previously presented) The medical treatment apparatus according to claim 34, wherein the apparatus is set for frequency region of from 5 kHz to 60 kHz and preferably from 15 kHz to 30 kHz.

18. (currently amended) A medical treatment apparatus comprising
a hand piece (1) including an ultrasound generator, an electrical connection means (4) for feeding electrical energy to the ultrasound generator of the hand piece, and a connector (5) for connecting a line to a storage container for a medical flushing liquid;
a sonotrode (3) having a tip and attached to the hand piece (1);
a channel disposed within the sonotrode for feeding a medical flushing liquid to the tip of the sonotrode;
an inner cylindrical thread (8) disposed at a front end of the hand piece (1);
a connection bush (9) having an outer attachment thread on a rear end for attachment to the inner cylindrical thread (8) of the front side of the hand piece (1);
an adaptation sleeve (10), wherein the adaptation sleeve is slid over the sonotrode (3) and attached to the hand piece (1);

a receiver part (12) disposed at the adaptation sleeve (10);

a hose connection (13) disposed at the receiver part (12);

a suction hose (14) attached to the hose connection (13) of the adaptation sleeve (10);

a suction tube (11) attached to the adaptation sleeve (10); a flushing line (6) for flushing healing agents to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece; a valve (7) disposed in the flushing line (6).

19. (previously presented) The medical treatment apparatus according to claim 18, wherein

the tip of the sonotrode (3) is disposed clearly outside of the front edge of the suction tube (11).

20. (previously presented) The medical treatment apparatus according to claim 19,

characterized in that a treatment surface (18) of the tip of the sonotrode (3) and the front edge of the suction tube (11) are inclined and aligned with each other.

21. (previously presented) The medical treatment apparatus according to claim 20, wherein

the treatment surface (18) of the tip of the sonotrode (3) is polished.

22. (previously presented) The medical treatment apparatus according to claim 18, wherein

the adaptation sleeve (10) screwed on the front region of the hand piece; wherein the receiver part (12) has a tubular shape and is disposed and attached with a front end at a side of the adaptation sleeve (10) and an axis of the tubular shape is inclined at an acute angle relative to an axis of symmetry of the adaptation sleeve (10).

23. (previously presented) The medical treatment apparatus according to claim 18, wherein the adaptation sleeve (10) can be plugged or can be connected by way of a clamping cone or by a bayonet catch disposed in a front region of the hand piece.

24. (previously presented) The medical treatment apparatus according to claim 18, wherein the receiver part (12) with the hose connection (13) is disposed at the side of the adaptation sleeve (10) and inclined relative to the axial of symmetry of the adaptation sleeve.

25. (previously presented) The medical treatment apparatus according to claim 18, wherein the suction tube (11) is made out of an opaque or transparent material and is plugged onto the front end of the adaptation sleeve (10) or can be connected by way of a clamping cone or by a bayonet catch on the front region of the hand piece.

26. (previously presented) The medical treatment apparatus according to claim

18, wherein

a first end of the flushing line (6) after the valve (7) is connected to the channel of the sonotrode (3) and a second end of the flushing line (6) is ending by the connector (5) for connecting the line to a storage container for healing agent.

27. (previously presented) A medical treatment apparatus comprising

a hand piece (1);

an ultrasound generator,

electrical connection means (4) attached to a rear end of the hand piece (1) and connected to the ultrasound generator and for feeding electrical energy to the ultrasound generator;

a connector (5) disposed near the rear end of the hand piece (1) for connecting a line to a storage container for a medical flushing liquid;

a sonotrode (3) having a tip and having a rear end attached to the front end of the hand piece (1), and wherein the ultrasound generator is connected to and drives the sonotrode (3) with ultrasound;

a flushing line (6) having a rear end connected to the connector for medical flushing liquid to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece;

a valve (7) disposed in the flushing line (6).

a channel disposed within the sonotrode (3) for feeding a medical flushing liquid to a front tip of the sonotrode (3) and wherein the channel is connected to a front end of the flushing line (6);

an inner cylindrical thread (8) disposed at a front end of the hand piece (1);

an adaptation sleeve (10) supporting an outer attachment thread on a rear end for attachment to the inner cylindrical thread (8) of the front side of the hand piece (1), wherein the adaptation sleeve (10) is slid over the sonotrode (3) and attached to the hand piece (1);

a suction tube (11) slid over the sonotrode (3), surrounding a front end of the sonotrode (3) and attached to a front end of the adaptation sleeve (10) for suctioning waste medical flushing liquid;

a receiver part (12) disposed with a first end at and branching sideways from the adaptation sleeve (10) for feeding the waste medical flushing liquid;

a hose connection (13) disposed with a first end at a second end of the receiver part (12);

a suction hose (14), wherein a first end of the suction hose (14) is inserted into the hose connection (13);

a separator (15), wherein a second end of the suction hose (14) is inserted into the separator;

a suction apparatus (A);

a connector (17) disposed at the suction apparatus (A);

a connection tube (16), wherein the connection tube connects the separator (15) and the connector (17) of the suction apparatus (A).

28. (previously presented) The medical treatment apparatus according to claim 27, further comprising a main filter disposed in the suction apparatus (A).

29. (previously presented) The medical treatment apparatus according to claim 27, wherein the separator (15) is a conventional water trap or a HEPA-filter.

30. (previously presented) The medical treatment apparatus according to claim 27, wherein the ultrasound generator operates according to the piezo ceramic principle and is set for frequency region of from 5 kHz to 60 kHz .

31. (previously presented) The medical treatment apparatus according to claim 27, wherein the ultrasound generator operates according to the magneto-strictive principle is set for frequency region of from 5 kHz to 60 kHz .

32. (cancelled)

33. (previously presented) A medical treatment apparatus kit comprising a hand piece (1);
an ultrasound generator disposed in the hand piece (1),

electrical connection means (4) attached to a rear end of the hand piece (1) and connected to the ultrasound generator and for feeding electrical energy to the ultrasound generator;

a connector (5) disposed near the rear end of the hand piece (1) for connecting a line to a storage container for a medical flushing liquid;

a sonotrode (3) having a tip and having a rear end attached to the front end of the hand piece (1), and wherein the ultrasound generator is connected to and drives the sonotrode (3) with ultrasound;

a flushing line (6) having a rear end connected to the connector for flushing healing agents to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece;

a valve (7) disposed in the flushing line (6).

a channel disposed within the sonotrode (3) for feeding a medical flushing liquid to a front tip of the sonotrode (3) and wherein the channel is connected to a front end of the flushing line (6);

an inner cylindrical thread (8) disposed at a front end of the hand piece (1);

wherein the hand piece (1), the ultrasound generator, the electrical connection means (4), the connector (5), the flushing line (6), the valve (7), the inner cylindrical thread (8), the sonotrode (3), and the channel form a base part of a kit;

a connection bush (9) having an outer attachment thread on a rear end for attachment to the inner cylindrical thread (8) of the front side of the hand piece (1);

an adaptation sleeve (10), wherein a front end of the connection bush (9) transitions into a rear end of the adaptation sleeve (10); wherein the connection bush (9) and the

adaptation sleeve (10) are slid over the sonotrode (3) and attached to the hand piece (1);

a suction tube (11) slid over the sonotrode (3), surrounding a front end of the sonotrode (3) and attached to a front end of the adaptation sleeve (10) for suctioning waste medical flushing liquid;

a receiver part (12) disposed with a first end at and branching sideways from the adaptation sleeve (10) for feeding the waste medical flushing liquid;

a hose connection (13) disposed with a first end at a second end of the receiver part (12);

a suction hose (14) attached with a first end to a second end of the hose connection (13) of the adaptation sleeve (10);

wherein the connection bush (9), the adaptation sleeve (10), the suction tube (11), the receiver part (12), the hose connection (13), and the suction hose (14) form a first attachment of the kit;

a sleeve (2) having an outer attachment thread on a rear end for attachment to the inner cylindrical thread (8) at the front side of the hand piece (1), wherein the sleeve (2) is slid over the sonotrode (3) and attached to the hand piece (1);

wherein the sleeve (2) forms a second attachment of the kit.

34. (previously presented) A medical treatment apparatus comprising

a hand piece (1);

an ultrasound generator disposed in the hand piece (1),

electrical connection means (4) attached to a rear end of the hand piece (1) and connected to the ultrasound generator and for feeding electrical energy to the ultrasound generator;

a connector (5) disposed near the rear end of the hand piece (1) for connecting a line to a storage container for a flushing healing agent;

a sonotrode (3) having a tip and having a rear end attached to the front end of the hand piece (1), and wherein the ultrasound generator is connected to and drives the sonotrode (3) with ultrasound;

a flushing line (6) having a rear end connected to the connector for flushing healing agent to the tip of the sonotrode, wherein the flushing line is aligned relative to an axis of symmetry of the hand piece;

a valve (7) disposed in the flushing line (6).

a channel disposed within the sonotrode (3) for feeding a flushing healing agent to a front tip of the sonotrode (3) and wherein a rear end of the channel is connected to a front end of the flushing line (6);

an inner cylindrical thread (8) disposed at a front end of the hand piece (1);

a connection bush (9) having an outer attachment thread on a rear end for attachment to the inner cylindrical thread (8) of the front side of the hand piece (1);

an adaptation sleeve (10), wherein a front end of the connection bush (9) transitions into a rear end of the adaptation sleeve (10); wherein the connection bush (9) and the adaptation sleeve (10) are slid over the sonotrode (3) and attached to the hand piece (1);

a suction tube (11) slid over the sonotrode (3), surrounding a front end of the sonotrode (3) and attached to a front end of the adaptation sleeve (10) for suctioning discharge flushing healing agent;

a receiver part (12) disposed with a first end at and branching sideways from the adaptation sleeve (10) for discharging the discharge flushing healing agent;

a hose connection (13) disposed with a first end at a second end of the receiver part (12);

a suction hose (14) attached with a first end to a second end of the hose connection (13) of the adaptation sleeve (10).